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(54) Title: PHOTOVOLTAIC DEVICE WITH TRIMETASPHERES

(57) Abstract: An exemplary photovoltaic device for conversion of an incident wavelength of electromagnetic radiation to electricity has an absorber of incident wavelength of electromagnetic radiation, a trimetaspHERE in electron transferring contact with the absorber, an anode in electrical contact with the trimetaspHERE, and a cathode in electrical contact with the absorber. The absorber and trimetaspHERE can be arranged as a heterojunction or a blended junction. An exemplary electrical circuit has an absorber of incident electromagnetic radiation, a trimetaspHERE-containing material in electron transferring contact with the absorber, an anode, a cathode and a current path from the anode to the cathode. An exemplary method of converting incident electromagnetic radiation to an electrical signal using a trimetaspHERE-containing material is also disclosed.